



CITY OF DURHAM | NORTH CAROLINA

Date: April 8, 2014

To: Thomas J. Bonfield, City Manager
Through: W. Bowman Ferguson, Deputy City Manager
From: Marvin G. Williams, Director of Public Works
Subject: Presentation – Pavement and Sidewalk Condition Study Findings

Executive Summary

In April 2013, Public Works contracted with Transmap Corporation (Transmap) to provide consulting services for a Pavement Condition Index (PCI) Study of the City of Durham's (City) maintained asphalt streets as well as a condition assessment of the sidewalks along those streets. Transmap completed the field work associated with this study in October 2013 and completed the analysis of the data in January 2014. This presentation is intended to provide an overview to the City Council and City Administration of the current condition of the City's street and sidewalk network, and the estimated costs that will be associated with maintaining these assets over the next several years.

Recommendation

The Public Works Department recommends that Council receive a presentation regarding the findings of the PCI Study completed by Transmap and a sidewalk condition assessment of all City maintained sidewalk. The presentation will include a review of the City's pavement and sidewalk condition, recommended funding options to maintain a proposed overall PCI rating of 70 out of 100, and will also identify funding needs for sidewalk maintenance and repairs.

Background

In an effort to generate a multi-year paving plan, the Public Works Department contracted with Transmap Corporation of Upper Arlington, Ohio to conduct a Pavement Condition Index (PCI) Study of the City maintained asphalt streets. In addition, Public Works authorized Transmap to conduct an assessment of the City sidewalks along all City owned and maintained streets. The scope of the study included a report of the existing pavement and sidewalk condition for City maintained streets, the development of pavement deterioration models using several funding scenarios over a 5-year and 10-year period and the identification of various maintenance and rehabilitation approaches for the City's street and sidewalk network.

Public Works has worked with Transmap over the past several months to identify the most appropriate PCI rating for the City's street network by reviewing the current and proposed PCI levels of various cities that are similar in population, street lane miles and traffic volume to Durham. However, each city that Transmap used as a comparison to Durham has a unique street network with various pavement types and approaches to street preservation and rehabilitation.

Public Works has also worked with Transmap to identify the most appropriate methods that can be used to address the current backlog of sidewalk repairs while complying with all current and pending American with Disability Act (ADA) requirements.

Issues/Analysis

The Issues/Analysis section is not applicable for this item.

Alternatives

The Alternatives section is not applicable for this item.

Financial Impact

The Financial Impact section is not applicable for this item.

SDBE Summary

The SDBE Summary is not applicable for this item.